The RS-232 interface is an asymmetrical voltage interface (common signal earth for all signals). In addition to a very low signal output, the interface is characterized by the signal earth being connected to the grounded chassis housing. The consequence is very low interference resistance and a range of a maximum of 15 m.

A considerable increase in the interference-resistance in industrial applications can be achieved by the use of RS-232 isolator modules. The high-grade 3-way isolation between both interface sides, supply and ground potential provides a floating and interference-resistant RS-232 interface. The positive side-effect: The expensive terminal equipment is also protected from damage by this decoupling.

To avoid compensating currents, it is sufficient to use an isolator module. The interference resistance can be further increased by the use if isolator modules at both device interfaces. As a result, the transmission link is completely free from potential references.

PSM-ME... control cabinet module
The 22.5 mm slim control cabinet module, PSM-ME..., designed for industrial applications, ensures a high-grade 3-way isolation with 2 kV. The additionally integrated surge voltage protection discharges transient interference effectively to ground potential via the self-contacting snap-on foot.

The module is supplied with 24 V AC or DC. The "field side" RS-232 connection is made using pluggable COMBICON screw terminal blocks to provide a convenient connection for differing cable lengths. The local RS-232 connection is made via an RS-232 standard cable with SUB-D9. In addition to the TxD/RxD data channels, the two control lines, RTS/CTS are transmitted. The integrated data indicator affords a useful extra function in providing an optical display for the transmit and receive channels when data transmission is taking place.

PSM plug modules
The PSM-V24... plug modules are plugged directly onto the 25-pin SUB-D connection of the RS-232 device interface and insulate the interface with a test voltage of 1000 V DC. It is possible to select from male and female versions (types ...,SB, ...,BB). The 9/25-pin PSM-KAD... adapter cable is available for connecting to 9-pin interfaces.

The separation module is equipped with a coding switch for universal application on DTE or DCE interfaces. Data channels RxD and TxD (software handshake) are transmitted. There is a fixed jumper for RTS/CTS control lines in the module. This means operation is also possible on interfaces which require a hardware handshake.

The plug modules are incorporated in a sturdy and compact aluminum housing and have a potential separation of 1 kV between the interface sides.

12 V DC power comes from the separate PSM-NT... plug-in power supply unit, or alternatively through the RS-232 interface, pin 18/7.
**PSM-ME-RS232/RS232-P**

**PSM-V24/V24-P/**...

**Housing width 22.5**

**Housing length 85**

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**Type**

- PSM-ME-RS232/RS232-P
- PSM-V24/V24-P/BB
- PSM-V24/V24-P/SB
- PSM-KAD-9SUB25/BS
- PSM-NT-120 AC/15 DC/100
- PSM-NT-120 AC/15 DC/100

**Specifications**

- RS-232 (A) // RS-232 (B)
- Supply 15 V DC or 12 V (±5%) via pin 16/7
- approx. 60 mA
- In acc. with ITU-T V.28, EIA/TIA-232, DIN 66 259-1
- SUB-D 25 (male) or SUB-D 25 (female)
- SUB-D 25 (female)

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**Phoenix Contact**

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